

OBLON, SPIVAK, ET AL DOCKET #: 246602US2 INV: Hiroshi GOTOH, et al. SHEET 3 OF 19

FIG.3

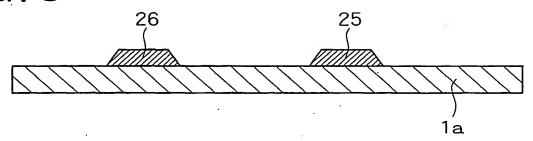


FIG.4

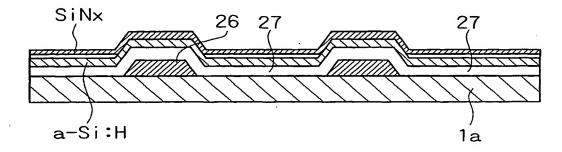


FIG.5

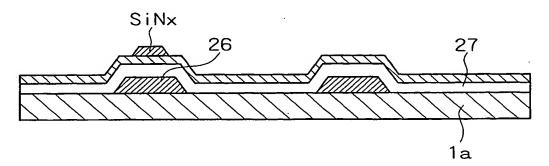


FIG.6

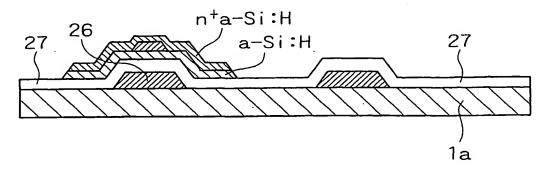


FIG.7

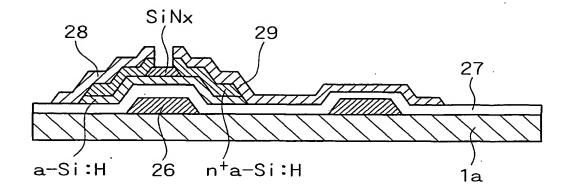


FIG.8

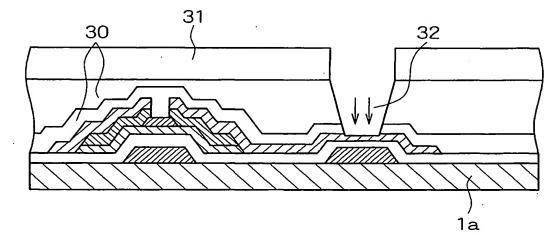
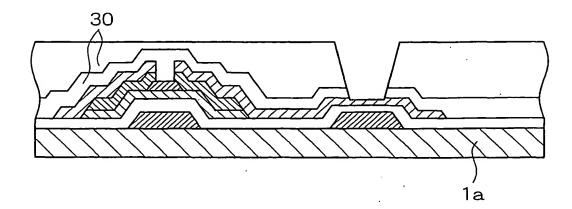
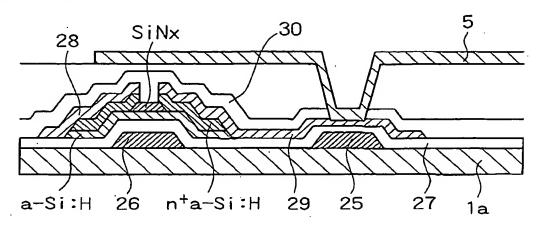


FIG.9



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FIG.10



F | G.11

PIXEL ELECTRODE (ITO) (5)

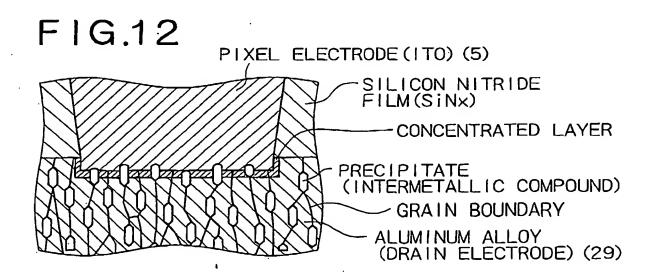
SILICON NITRIDE
FILM (SiNx)

INSULATING
MATERIAL LAYER

PRECIPITATE
(INTERMETALLIC COMPOUND)

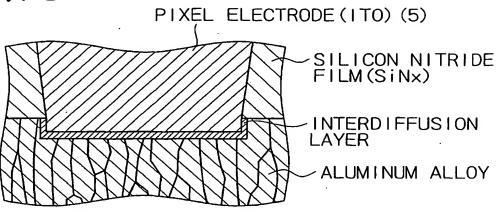
GRAIN BOUNDARY

ALUMINUM ALLOY
(DRAIN ELECTRODE) (29)

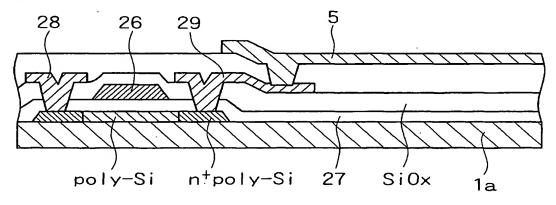


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FIG.13



F | G.14



F1G.15

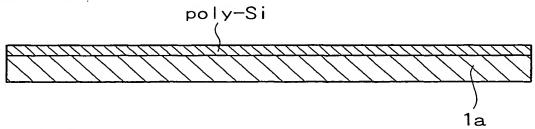
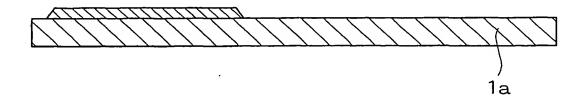


FIG.16



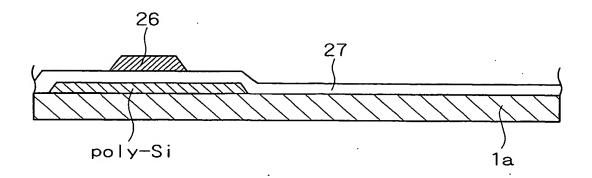
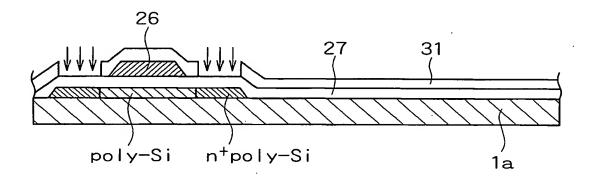
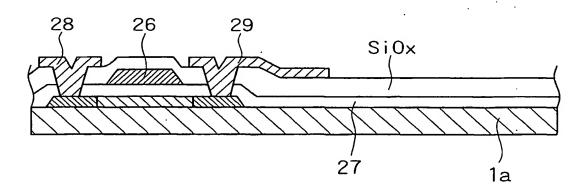


FIG.18





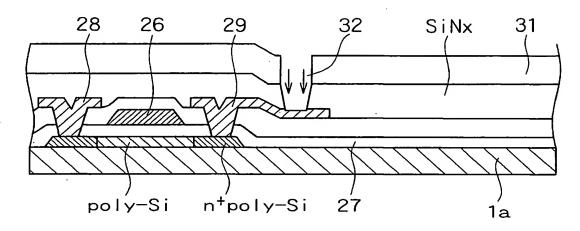


FIG. 21

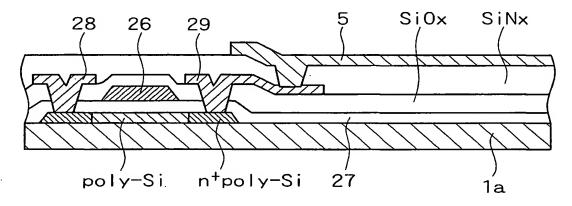


FIG. 22

TEG PATTERN

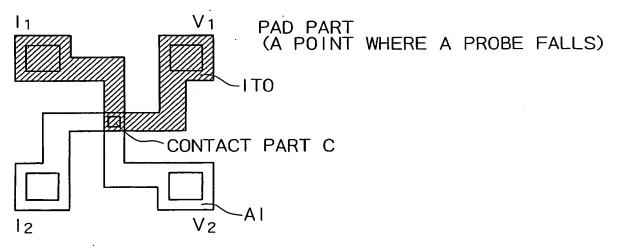
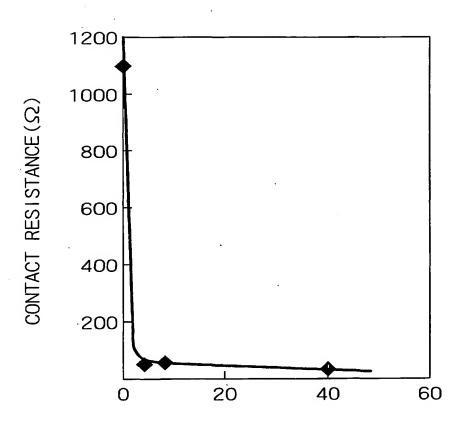


FIG. 23



ETCHING DEPTH (nm)

FIG. 24A

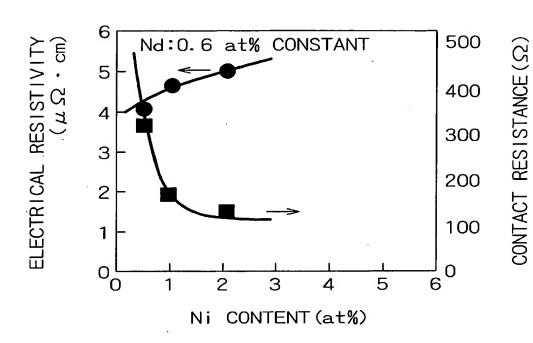


FIG. 24B

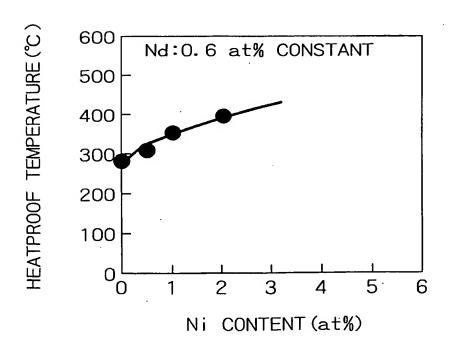


FIG. 25A

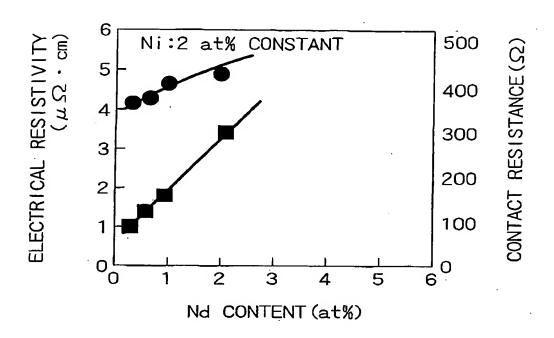
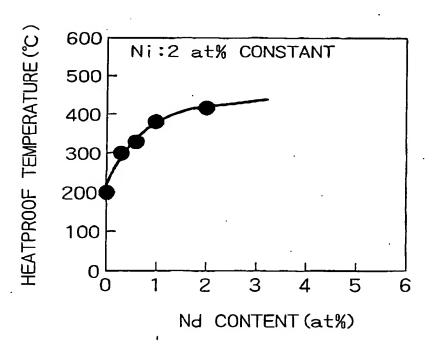
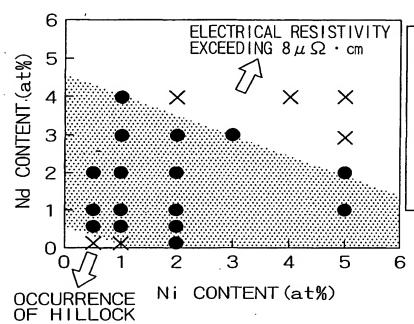


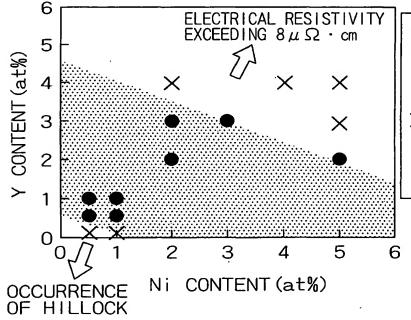
FIG. 25B



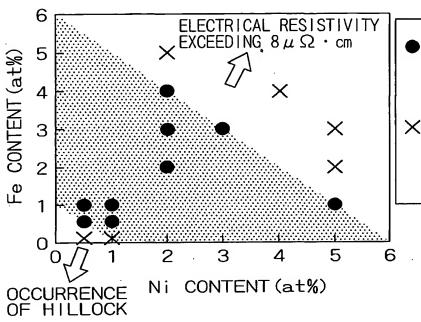


- ELECTRICAL RESISTIVITY IS $8 \mu \Omega$ · cm OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- \times ELECTRICAL RESISTIVITY EXCEEDS 8 μ Ω · cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

FIG. 27

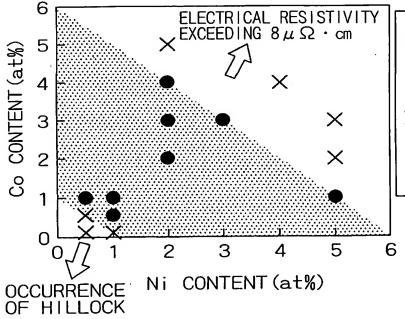


- ELECTRICAL RESISTIVITY IS 8 μ Ω · cm OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- \times ELECTRICAL RESISTIVITY EXCEEDS 8 μ Ω \cdot cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.



- ELECTRICAL RESISTIVITY IS $8 \mu \Omega \cdot \text{cm}$ OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- \times ELECTRICAL RESISTIVITY EXCEEDS 8 μ Ω · cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

FIG. 29



- ELECTRICAL RESISTIVITY IS $8 \mu \Omega$ · cm OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- imes ELECTRICAL RESISTIVITY EXCEEDS $8\,\mu\,\Omega$ · cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

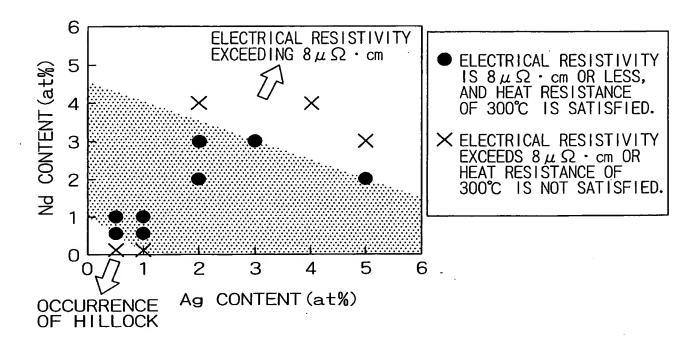
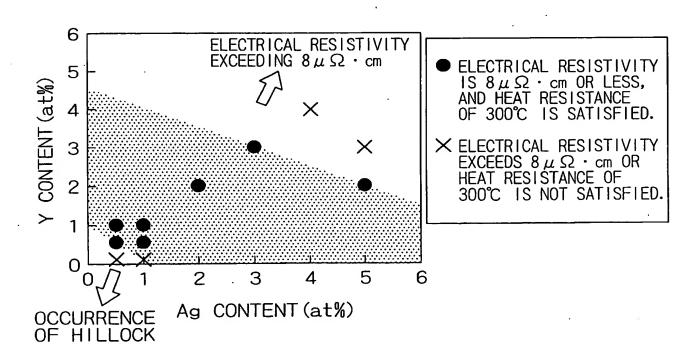


FIG. 31



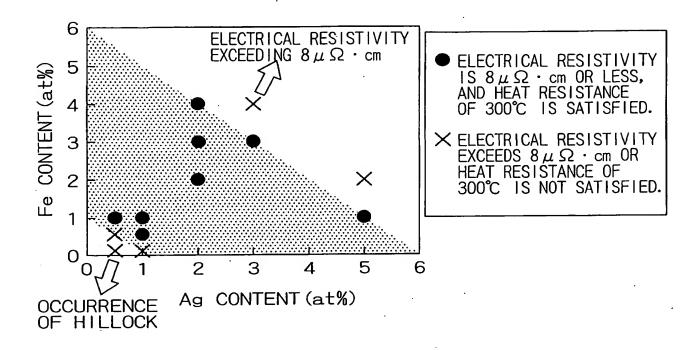


FIG. 33

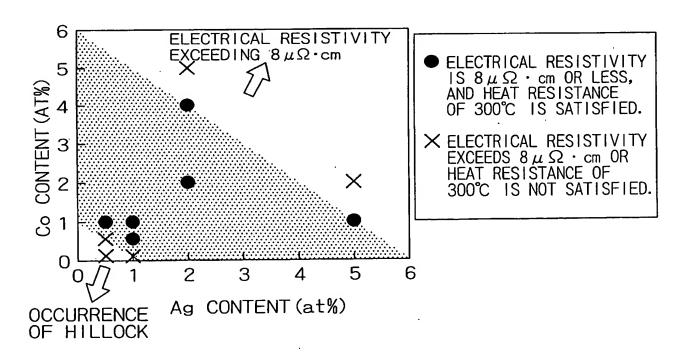


FIG. 34

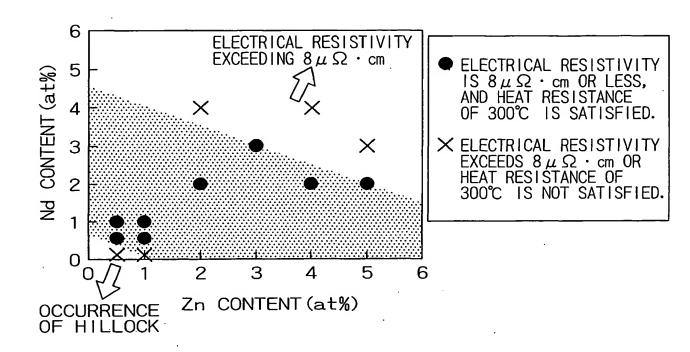
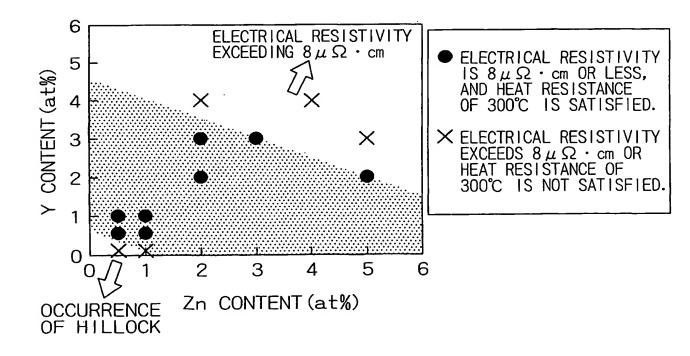
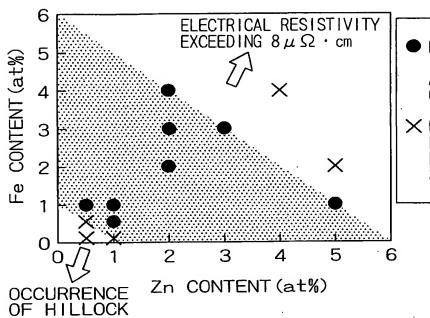


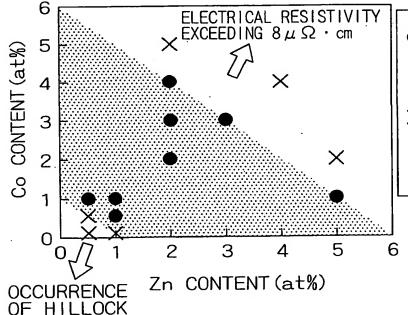
FIG. 35





- ELECTRICAL RESISTIVITY IS 8 μ Ω · cm OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- × ELECTRICAL RESISTIVITY EXCEEDS 8 μΩ·cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

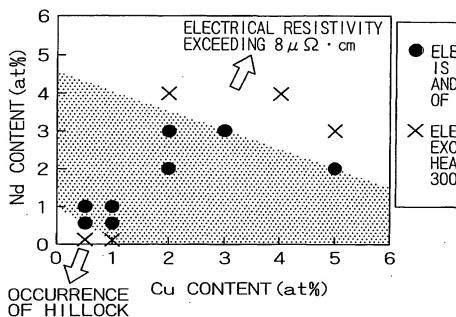
FIG. 37



- ELECTRICAL RESISTIVITY IS $8 \mu \Omega$ · cm OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- \times ELECTRICAL RESISTIVITY EXCEEDS $8\,\mu\,\Omega\cdot\text{cm}$ OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

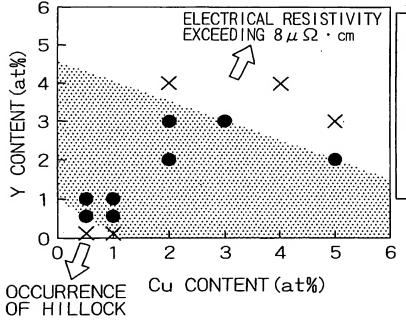
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F1G.38



- ELECTRICAL RESISTIVITY IS $8 \mu \Omega \cdot \text{cm}$ OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- \times ELECTRICAL RESISTIVITY EXCEEDS $8\,\mu\,\Omega$ cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

FIG.39



- ELECTRICAL RESISTIVITY IS $8 \mu \Omega \cdot \text{cm}$ OR LESS, AND HEAT RESISTANCE OF 300°C IS SATISFIED.
- \times ELECTRICAL RESISTIVITY EXCEEDS $8\,\mu\,\Omega$ · cm OR HEAT RESISTANCE OF 300°C IS NOT SATISFIED.

FIG. 40

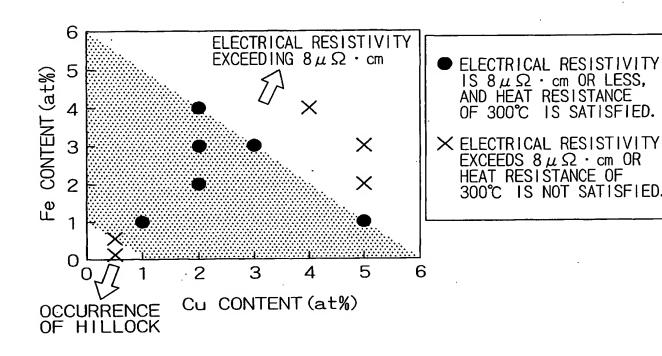


FIG. 41

